

CLAIMS

1. A method for producing propylene oxide, characterized in that it comprises reacting propylene with hydrogen peroxide in the presence of an organic solvent and a crystalline
5 titanosilicate catalyst that has an MWW structure containing Ti having been incorporated during crystallization.

2. A method according to claim 1, wherein the organic solvent is a nitrile compound.

10

3. A method according to claim 1, wherein the crystalline titanosilicate catalyst having an MWW structure is a
titanosilicate catalyst having an MWW structure, prepared without using aluminum.

15

4. A method according to claim 1, wherein hydrogen peroxide synthesized within the epoxidation reaction system of propylene is used in the reaction.